

1. Title	Formulate an overall operation and repair policy and plan for the railway system	
2. Code	EMRAOR701A	
3. Range	Formulate an overall operation and repair policy and plan for the railway system, including the design and division of work of its overall operation and repair system, so as to respond to the requirements on the overall quality and efficiency, especially the safety and reliability, of the railway transportation service.	
4. Level	7	
5. Credits	20	
6. Competency	<p style="text-align: center;"><u>Performance Requirements</u></p> <p>6.1 Studies and skills to formulate an overall operation and repair policy and plan for the railway system</p> <ul style="list-style-type: none"> ◆ Analyze and evaluate the data and impact of main line failures ◆ Master the expertise, including electrical and mechanical knowledge, in railway works in various disciplines, and apply the expertise to review, analyze, consolidate and evaluate the performance and trend data of the entire railway system, and to formulate an overall operation and repair policy and plan ◆ Master the skills in analyzing customers' requirements, development trend and culture of railway transportation service ◆ Master the expertise in professional management and human relationship and the skills in coordinating railway operational departments ◆ Master the skills in analyzing, reformatting and evaluating performance data of railway system equipment, and apply such skills to judge, formulate and review the effectiveness of the overall operation and repair policy and plan <p>6.2 Methods and procedures of formulating an overall operation and repair policy and plan for the railway system</p> <ul style="list-style-type: none"> ◆ Use the analyzed and evaluated data to coordinate the railway engineering and transport operation departments to formulate strategies to reduce main line operation failures ◆ Apply electrical and mechanical maintenance techniques and management knowledge to analyze the requirements on the overall quality and efficiency of the railway transportation service, including the requirements on operation frequency, journey time, safety, reliability, comfort, environmental protection and efficiency, so as to set the goal for the overall quality and efficiency of the railway system ◆ Apply electrical and mechanical engineering techniques and management skills to formulate an overall operation and repair policy and plan for the railway system according to the goal for the quality and efficiency of the railway system maintenance and repair, with the following included: <ul style="list-style-type: none"> • Strategy to continuously improve the methods of operation and repair 	

	<ul style="list-style-type: none"> • Strategy of maintenance and repair unit structure management • Human resources management strategy • Strategy to introduce and apply new technologies • Cost-effectiveness strategy • Risk management strategy • Communication channels <ul style="list-style-type: none"> ◆ Formulate mechanisms to measure, review and improve the railway system operation and repair management policy and plan <p>6.3 Professionalism in formulating an overall operation and repair policy and plan for the railway system</p> <ul style="list-style-type: none"> ◆ Formulate an overall operation and repair policy and plan for the railway system according to the standards and requirements for safety, health, environmental protection and quality management of railway works ◆ Understand the safety guidelines as required by the law and codes of practice when formulating an overall operation and repair policy and plan for the railway system
<p>7. Assessment Criteria</p>	<p>The integrated outcome requirement of this unit of competency is:</p> <p>(i) Capable to analyze and evaluate effectively data of railway main line failures, and formulate an overall operation and repair policy and plan for the railway system; and</p> <p>(ii) Capable to formulate effective mechanisms to measure, review and improve the overall operation and repair policy and plan for the railway system.</p>
<p>8. Remarks</p>	<p>The credit value of this unit of competency is set on the presumption that the person already possesses the expertise in electrical and mechanical works in various disciplines and operation management.</p>